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# ANNUAL RECEPTION

## Department of Microscopy

OF THE

## BROOKLYN INSTITUTE,

200 WASHINGTON STREET,

BROOKLYN,

THURSDAY, MAY 8th, 1890,

AT 8 P. M.

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ADMISSION BY TICKET ONLY

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Officers of the Department.

REV. J. L. ZABRISKIE, President.

GEORGE M. MATHER, Vice President.

GEORGE E. ASHBY, Secretary.

EDW. C. CHAPMAN, Treasurer.

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ARMY  
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MAY 27 1946

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GEORGE E. ASHBY,

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J. W. FRECKELTON.

REV. J. L. ZABRISKIE.

# PROGRAMME.

- No. 1. VOLCANIC DUST FROM JAVA ERUPTION, - - - - - MR. HENRY FINCKE  
Fell on the bark "Arabella," Aug. 28, 1883, 1,000 miles from Java. Lat.  $5^{\circ} 37' S.$ ,  
Long.  $88^{\circ} 58' E.$
- No. 2. RINGWORM OF SCALP, - - - - - MR. HENRY FINCKE  
Prepared to show its effect on the hair.
- No. 3. FOOT OF SILKWORM. - - - - - MR. HENRY FINCKE
- No. 4. PEPTIC GLANDS FROM THE CARDIAC REGION OF THE STOMACH OF THE FROG, - - - - - DR. HEBER N. HOOPLE
- No. 5. SKIN OF EEL, SCALES *in situ*, - - - - - MR. WILLIAM FINNEY  
Shown by Polarized Light.
- No. 6. MICRO-PHOTOGRAPH—DECLARATION OF INDEPENDENCE,  
PROF. W. LECONTE STEVENS
- No. 7. SECTION OF PALLASITE (Meteorite) FROM KIOWA COUNTY, KANSAS,  
MR. GEORGE F. KUNZ  
The Kiowa County Meteorites numbered twelve in all of which six were pallasites (a spongy iron filled with olivine.)
- No. 8. POLLEN OF THE CENTURY PLANT—*Agave Americana*, MR. W. G. BOWDOIN  
From a plant in the conservatory of the late Wm. Darlington. Pittsburg, Pa. Age at bloom, 51 years.
- No. 9. DIATOMS - - - - - MR. G. D. HISCOX  
112 different varieties and species arranged on one slide. Illustrating the beauty and perfection of infinitesimal creation.
- No. 10. SECTION OF HUMAN KIDNEY. Double injected. DR. HERBERT FEARN  
Arteries and malpighian tufts injected red, and veins injected blue. In the lighter portions will be seen the uriniferous tubules.
- No. 11. SECTION OF MELAPHYRE FROM BAS MATACHIN, Isthmus of PANAMA, - - - - - MR. THOMAS B. BRIGGS  
One of the very hard rocks encountered in the excavation of the proposed Panama Canal. Melaphyre may be denoted as a fine grained brownish-black aggregate of plagioclase, augite, olivine, magnetite and delessite or chlorophocite.
- No. 12. SECTION OF PREHNITE, - - - - - MR. JAMES WALKER  
From the Glacial Drift of Brooklyn.
- No. 13. VERTICAL SECTION OF HUMAN SCALP, - - - - - DR. C. K. BELDIN  
Showing hairs, etc., *in situ*.
- No. 14. TRANSVERSE SECTION OF LEAF (PINE NEEDLE) OF SCOTCH FIR—*Pinus Sylvestris*, - - - - - MR. GEORGE E. ASHBY
- No. 15. SPIRACLES (breathing pores) AND TRACHEÆ (air tubes) OF SILKWORM, - - - - - MR. GEORGE E. ASHBY  
The aeration of the blood in insects is provided for, not by the transmission of the fluid to any special organ, but by the introduction of air into every part of the body through a system of minutely distributed air tubes.
- No. 16. TRANSVERSE SECTION OF PEDUNCLE OF YELLOW WATER LILY—*Nuphar lutea*. - - - - - MR. JOSEPH KETCHUM
- No. 17. RUTILE CRYSTALS IN QUARTZ, FROM NORTH CAROLINA, - - - - - MR. GEORGE M. MATHER  
Rutile is an oxide of Titanium.
- No. 18. CRYSTALS OF CADMIUM, ARTIFICIAL, - - - - - MR. GEORGE M. MATHER

- No. 19. POLYCYSTINA FROM SPRINGFIELD, BARBADOES, MR. FRANK HEALY  
Silicious shells of a minute form of animal life.
- No. 20. BUTTERFLY SCALES, ARRANGED TO FORM A BOUQUET OF FLOWERS, MR. FRANK HEALY
- No. 21. QUARTZ CRYSTALS, FROM HERKIMER CO., NEW YORK, MR. CHARLES RONFELDT
- No. 22 and 23. POND LIFE, MR. C. H. TAYLOR
- No. 24. CALLIMOME REGIUS, MR. HENRY FINCKE  
A parasitic fly.
- No. 25. SPORE-CASES OF FERN, FROM NEW ZEALAND, *Dicksonia squarrosa*, MR. WALTER H. KENT, PH. D.
- No. 26. TRANSVERSE SECTION OF PETIOLE (leaf-stalk) OF CARROT—*Daucus carota*, MR. WILLIAM W. LAING
- No. 27. POLLEN OF MOON FLOWER, MR. WILLIAM LOWEY
- No. 28. TRANSVERSE SECTION OF STEM OF BEECH—*Fagus sylvatica*, MR. EDWARD C. CHAPMAN
- No. 29. CLUSTER OF GOLD PRISMS, DR. A. J. WATTS  
An artificial formation.
- No. 30. AURIFIED CLOTH, DR. A. J. WATTS  
The cotton fibre of this specimen has been replaced by Gold, a substitution similar to that which has taken place in petrified wood.
- No. 31. CRYSTALS OF PROUSTITE, "RUBY SILVER," FROM CHILI, S. A., DR. JOSEPH H. HUNT  
A silver ore containing 65 per cent. of the metal. Illuminated by means of a paraboloid condenser.
- No. 32 and 33. ANCIENT IRIDESCENT GLASS FROM CYPRUS, MR. GEO. M. HOPKINS  
No. 32. Shown by Reflected Light. No. 33. Shown by Polarized Light.
- No. 34. FORAMINIFERA, MR. WILLIAM POTTS  
The skeleton remains of a low order of animal life, chiefly marine. They are found fossil in many geological periods and vast deposits of rock are made up entirely of these calcareous remains.
- No. 35. SECTION OF GRANITE, PROF. FRANKLIN W. HOOPER  
Shown by Polarized Light.
- No. 36. CYCLOSIS (circulation) OF PROTOPLASM IN CELL OF CHARA, ONE OF THE FRESH WATER ALGÆ, PROF. FRANKLIN W. HOOPER
- No. 37. TRANSVERSE SECTION THROUGH HEAD OF LARVA OF NEWT, *Salamandra Maculosa*, MR. LUDWIG RIEDERER  
Showing cerebrum, eyes with lens and retina, tongue and lower jaws, cartilaginous bones and blood vessels.
- No. 38. TEETH OF MOSQUITO, *Culex* sp., REV. J. L. ZABRISKIE  
Showing eleven teeth at the extremity and upon the thin edge of each flattened, bristle-like mandible.
- No. 39. OVIPOSITOR OF THE NARROW-WINGED KATYDID, *Scudderia curvicauda*. De Geer, REV. J. L. ZABRISKIE  
Polarized. Showing two saws, two sheaths and two stylets.
- No. 40. SECTION OF METEORIC STONE FROM SEGWOWLEE, INDIA. Fell March 1853, MR. ALBERT A. HOPKINS  
Shown by Polarized Light.

- No. 41. METEORIC IRON FROM TOLUCA, MEXICO, Etched to show the Widmanstättian lines. MR. ALBERT A. HOPKINS

No. 42. STINGING HAIRS OF NETTLE, *Urtica hispida*, The tip of the sting is broken off on entering the skin and the poison from the gland below is pressed through the tube of the sting into the flesh. PROF. W. C. PECKHAM

No. 43. SCALES OF 30 VARIETIES OF SOUTH AMERICAN LEPIDOPTERA, Opaque. Shown by automatic revolving stage. MR. J. D. MALLONEE

No. 44. FLEA—*Pulex irritans*, Shown on an old style microscope with non-achromatic lenses. MR. J. D. MALLONEE

No. 45. IRON SAND FROM SHELTER ISLAND. Opaque. MR. GEORGE A. STREET

No. 46. SECTION OF OPAL FROM HONDURAS, The beautiful display of colors for which these gems are noted is here exhibited in a section of the thinness of tissue paper. MR. H. HENSOLDT, PH. D.

No. 47. FOOT OF THE EMERALD SPIDER, *Micromata smaragdula*, In this object the two combs used by the spider in arranging the lines of his web are seen in rare perfection. MR. H. HENSOLDT, PH. D.

No. 48. EGGS OF BOT-FLY, MR. HENRY S. GIBSON

No. 49. HIPPURIC ACID, Shown by Polarized Light. DR. E. W. OWEN

No. 50. HOUSE FLY, entire insect, DR. E. W. OWEN

No. 51. PLATINO CYANIDE OF BARIUM, Shown by Polarized Light. DR. E. W. OWEN

No. 52. TRANSVERSE SECTION OF OVARY OF RHODODENDRON PONTICUM, DR. HUGH M. SMITH

No. 53. TORBERNITE CRYSTALS FROM CORNWALL, ENGLAND, Mr. J W. FRECKELTON  
A cupreous phosphate of Uranium.

No. 54. TRANSVERSE SECTION OF SPINES OF ECHINUS, DR. S. E. STILES  
These spines stud the shell of the Sea-Urchin, and are the organs of locomotion.

No. 55. SAWS OF SAW FLY, MR. H. S. WOODMAN  
These appendages are used by the insect to saw a fine slit in a leaf, in which the eggs are deposited.

Nos. 56 to 65. SECTIONS ILLUSTRATING HUMAN TISSUE, DR. J. M. VAN COTT, JR.  
 No. 56. Muscular tissue, non-striated. No. 61. Reticular Cartilage.  
 No. 57. Muscular tissue, striated. No. 62. Compact Bone.  
 No. 58. Muscular tissue of the heart. No. 63. Oesophagus.  
 No. 59. Nerve fibres. No. 64. Stomach.  
 No. 60. Spinal cord. No. 65. Intestine.

No. 66. ELYTRON (wing-cover) OF JEWEL SNOUT BEETLE, *Entimus Regalis*, FROM BRAZIL, S. A., MR. ARTIS H. EHRLICH

No. 67. SULPHIDE OF NICKEL, FROM CHILI, S. A., MR. F. L. LATHROP

No. 68. CRYSTALS OF OXALATE OF LIME, MR. FREDERICK J. WULLING, PH. G.  
Shown by polarized light.

No. 69. BLOOD OF SNAKE, MR. FREDERICK J. WULLING, PH. G.  
Double stained, showing the corpuscles and their nuclei.

No. 70. SEED OF GENTIAN, MR. JOHN H. ROYALE

No. 71 and 72. POND LIFE, MR. STEPHEN HELM, F. R. M. S.